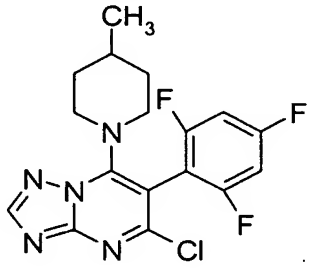
We claim:

1. A fungicidal mixture for controlling phytopathogenic harmful fungi, which mixture comprises

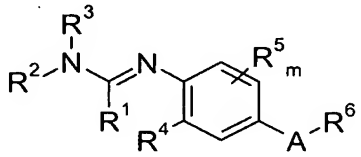
1) the triazolopyrimidine derivative of the formula I



I

and

2) a phenylamidine derivative of the formula II



II

in which the variables are as defined below:

R^1 is hydrogen, C_1-C_8-alkyl, C_2-C_8-alkenyl or C_2-C_8-alkynyl which are unsubstituted or may be substituted by one to three groups R^a:

R^a is halogen, C_1-C_8-alkoxy, C_1-C_8-haloalkoxy, C_1-C_8-alkylthio or phenyl which may be substituted by halogen, C_1-C_8-alkyl, C_1-C_8-haloalkyl, C_1-C_8-alkoxy, C_1-C_8-haloalkoxy or C_1-C_8-alkylthio;

R^2,R^3 may be identical or different and are hydrogen, cyano, C_1-C_8-alkyl, C_2-C_8-alkenyl, C_2-C_8-alkynyl, C_1-C_8-alkoxy, C_1-C_8-alkoxyalkyl, benzyloxy or C_1-C_8-alkylcarbonyl which are unsubstituted or may be substituted by one to three groups R^a;

R^4 is hydrogen, C_1-C_8-alkyl, C_2-C_8-alkenyl or C_2-C_8-alkynyl which are unsubstituted or may be substituted by one to three groups R^b:

R^b is one of the groups mentioned under R^a, cyano, $C(=O)R^c$, $C(=S)R^c$ or $S(O)_pR^c$,

R^c is C_1-C_8-alkyl, C_1-C_8-haloalkyl, C_1-C_8-alkoxy, C_1-C_8-haloalkoxy, C_1-C_8-alkylthio, amino, C_1-C_8-alkylamino, di(C_1-C_8-alkyl)amino or
phenyl which may be substituted by halogen, C_1-C_8-alkyl, C_1-C_8-haloalkyl, C_1-C_8-alkoxy, C_1-C_8-haloalkoxy or C_1-C_8-alkylthio;

m is 0 or 1;

R^5 is one of the groups mentioned under R^4;

A is a direct bond, -O-, -S-, NR^d, CHR^e or –O-CHR^e;

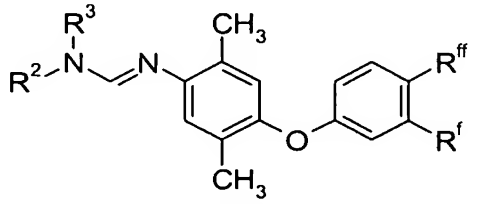
R^d,R^e are one of the groups mentioned under R^a;

R^6 is phenyl or a five- or six-membered saturated, partially unsaturated or aromatic heterocycle which contains one to four heteroatoms from the group consisting of O, N or S, where the groups R^6 are unsubstituted or may be substituted by one to three R^f:

R^f is one of the groups mentioned under R^b or
amino, C_1-C_8-alkylamino, di(C_1-C_8-alkyl)amino, C_1-C_8-haloalkyl, C_1-C_8-alkoxyalkyl, C_2-C_8-alkenyloxyalkyl, C_2-C_8-alkynyloxyalkyl, C_1-C_8-alkylcarbonyloxy-C_1-C_8-alkyl, cyanooxy-C_1-C_8-alkyl, C_3-C_6-cycloalkyl or phenoxy, where the cyclic groups may be substituted by halogen, C_1-C_8-alkyl, C_1-C_8-haloalkyl, C_1-C_8-alkoxy, C_1-C_8-haloalkoxy or C_1-C_8-alkylthio;

in a synergistically effective amount.

2. The fungicidal mixture according to claim 1 comprising, as phenylamidine derivative, a compound of the formula IIA



IIA

in which the variables are as defined below:
R^2,R^3 are methyl and ethyl;
R^4,R^5 are methyl;

R^f,R^{ff} are halogen, alkyl and haloalkyl.

3. The fungicidal mixture according to claim 1 or 2 comprising the compound of the formula I and the compound of the formula II in a weight ratio of from 100:1 to 1:100.

4. A composition comprising a liquid or solid carrier and a mixture according to any of claims 1 to 3.

5. A method for controlling phytopathogenic harmful fungi which comprises treating the fungi, their habitat or the seed, the soil or the plants to be protected against fungal attack with an effective amount of the compound I and the compound II according to claim 1.

6. The method according to claim 5, wherein the compounds I and II according to claim 1 are applied simultaneously, that is jointly or separately, or in succession.

7. The method according to claims 5 or 6, wherein the compounds I and II according to claim 1 or the mixtures according to any of claims 1 to 3 are applied in an amount of from 5 g/ha to 1000 g/ha.

8. The method according to any of claims 5 to 7, wherein the compounds I and II according to claim 1 or the mixture according to any of claims 1 to 3 are applied in an amount of from 1 to 1000 g/100 kg of seed.

9. Seed comprising the mixture according to any of claims 1 to 3 in an amount of from 1 to 1000 g/100 kg.

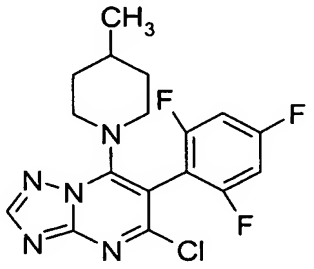
10. The use of the compounds I and II according to claim 1 for preparing a composition suitable for controlling harmful fungi.

Fungicidal mixtures

Abstract

The present invention relates to fungicidal mixtures comprising, as active components,

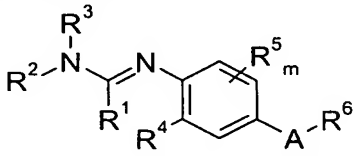
1) the triazolopyrimidine derivative of the formula I



I

and

2) a phenylamidine derivative of the formula II



II

in which the variables are as defined below:

R^1, R^4,R^5 are alkyl, alkenyl or alkynyl;

R^2,R^3 are cyano, alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl, benzyloxy or alkylcarbonyl;

m is 0 or 1;

A is a direct bond, -O-, -S-, NR^d, CHR^e or –O-CHR^e;

R^6 is phenyl or a five- or six-membered saturated, partially unsaturated or aromatic heterocycle which contains one to four heteroatoms from the group consisting of O, N and S;

where the groups may be substituted according to the description;

in a synergistically effective amount, to methods for controlling harmful fungi using mixtures of the compound I with the compound II and to the use of the compound I with the compound II for preparing such mixtures, and also to compositions comprising these mixtures.